

Mohammad Jahirul Alam

Graduate Teaching Assistant

Department of Earth and Atmospheric Science,

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EDUCATIONAL BACKGROUND

Aug 2021 - Present Doctor of Philosophy (Ph.D.) in Atmospheric Science, University of Houston

Academic Advisor: Dr. Bernhard Rappenglueck. E-mail: brappenglueck@uh.edu

Nov 2016 – Feb 2018 M.S. Physical Chemistry (32 credits), University of Dhaka (DU)

CGPA: 3.52/4.00 (32 credits)

Thesis title: Computational investigation of hydrated Nickel ion ligand complexes, (Ligand: H₂O, NH₃, -OH, -Cl⁻) (A+)

Supervisor: Prof. Dr. M. Saiful Islam and Assistant Prof. Md. Kamrul Hasan

Jan 2011 - Jul 2016 BS Chemistry, University of Dhaka (DU)

CGPA: 2.97/4.00 (140 credits) (GPA 3.10/4.0 for the last 72 credits)

Project title: Adsorptive removal of ethyl violet from aqueous solution using banana stem powder (A+)

Supervisor: Dr. Hosne Ara Begum

WORK EXPERIENCE

Dec 2020-Jul 2021

Application Chemist

Medi Graphic Trading Limited

(Shimadzu Authorized company in Asia Pacific)

Skills For Shimadzu GCMS and GC: Operational Qualification, Performance Qualification, Installation Qualification, Preliminary Maintenance, Software validation, Calibration, Sample Analysis, and providing Training.

SKILLS AND SPECIALIZATIONS

- **Language and Application Software:** MS Word, MS Excel, MS Power Point, Adobe Photoshop, Sigma plot 10 and all types of Graph drawing
- **Lab equipment's:** Waters Alliance Acquity HPLC & UPLC, Agilent HPLC & UPLC, Dissolution tester/Agilent, Electronic pH Meter, Atomic Absorption Spectrophotometer (AAS), UV/VIS Spectrophotometer
- Proficient in Gaussian09, Gaussian16, Sigma plot.

KEY WORKSHOPS & TRAINING

- **5th Conference of Bangladesh Crystallographic Association**, 25-26 January, 2019. Department of Chemistry, DU, Bangladesh (**Poster presentation:** Computational Investigation of Hydrated Nickel Ion Ligand and Successive Reaction Energy with Chloride).
- **International Conference on Chemical Science & technology**, 24-25 February, 2018. Department of Chemistry, KUET, Bangladesh (**Poster presentation:** Computational Structure analysis of Hydrated Nickel Ion Ligand).

EXTRACURRICULAR INTERESTS

Traveling

Volunteering

Cricket